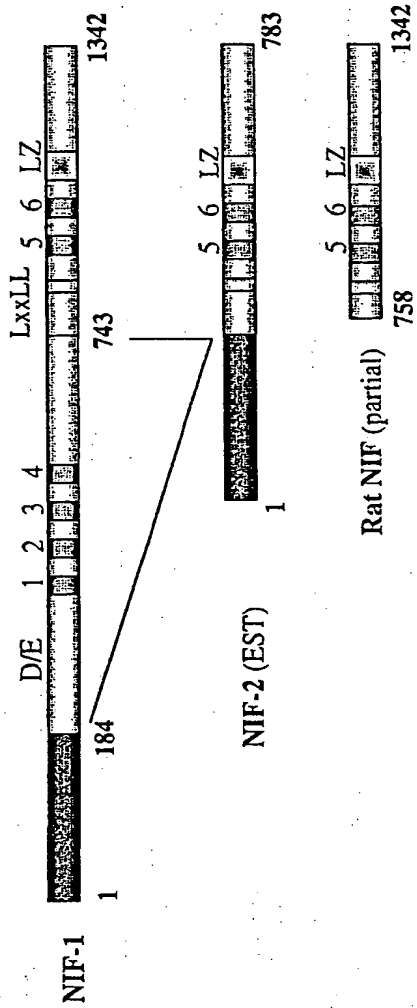


▼ \*SSQTLRPAVRQPADQ  
 MEENEVESSDAAPGPRPEEPSESGLVGTSEAVSADSSDAAAAPGQAEADDSGVGQSS 60  
 DRGSRSQEEVSESSSSADPLPNSYLPDSSSVSHGPVAGVTGGPPALVHSSALPDNMLVS 120  
 DCTASSDLGSAIDKIIESTIGPDLIQNCITVTSADGGAETTRYLILQGPDDGAPMTSP 180  
 MSSSTLAHSLAAIEALADGPTSTSTCLEAQGGPSSPVQLPPASGAEEPDLQSLEAMMEVV 240  
 VVQQFKCKMCQYRSSTKATLLRHRERHFRPVAAAAAAGKKGRLRKWSTSTKSQEEEGP 300  
 EEEDDDDIVDACAIDLEEDSDYNPAEDEPRGRQLRLQRPSTPRPRRRPGRPRKLPRL 360  
 EISDLPDGVGEPLVSSQSGQSPPEPQDPEAPSSSGPGLVAMGKVSRTPEAGVSQSDA 420  
 ENAAPSCPDEHDTLPRRRGRPSRRFLGKKYRKYYYKSPKPLLRPFLCRICGSRFLSHEDL 480  
 RFHVNSHEAGDPQLFKCLQCSYRSRRWSSLKEHMFNVGSKPYKCDECSYTSVYRKDVIR 540  
 HAAVHSRDRKRPDPTPKLSSFFCPVCGRVYPMQKRLTQHMKTHTEKPHMCDKCGKSFK 600  
 KRYTFKMHLTHIQAVANRRFCEPCEFVCEDKKALLNHQLSHVSDKPFKCSFCPYRTFR 660  
 EDFLLSHVAVKHTGAKPFACEYCHFSTRHKKNLRLHVRCHASSFEWGRRHPEEPSRR 720  
 RPFFSLQOIEELKQOHSAAAGPPSSPGPPEIPPEATTFQSSEAPSLLCSDTLGGATIYY 780  
 QQGAEEESTAMATQTA<sup>1</sup>LDLLNMSAQRELGGTALQVAVVKSEDVEAGLASPGGQPSPEGAT 840  
 PQVVTLHVAEPGGGAAAESQLGPPDLQITLAPGPFGGTGYSVITAPPMEEGTSAPGTPY 900  
 SEEPAGEAAQAVVSDTLKEAGTHYIMATDGTQLHHIELTADGSI<sup>2</sup>SFPSPDALASGAKWP 960  
 LLQCGGLPRDGPPEPPSPAKTHCVGDSQSSASSPPATSKALGLAVPPSPPSAATAASKKFS 1020  
 CKICAEAFPGRAEMESHKRAHAGPGAFKCPDCPFSARQWPEVRAHMAQHSSLRPHQCSQC 1080  
 SFASKNKKDLRRHMLTHTKEKPFA<sup>3</sup>CHLCGQRFNRNGHLKFHIQRLHSPDGRKSGTPTARA 1140  
 PTQTPTQTI<sup>4</sup>ILNSDDETLATLHTALQSSHGVLSPERLQOALSQEHIIVAQEQTVTNQEEA 1200  
 AYIQEITADGQTVQHLVTS<sup>5</sup>SDNQVQYIISQDGVQHLLPQEYVVVPEGHHIQVQEGQITHI 1260  
 QYEQGAFLQESQIQYVPVSPGQQLVTQAQLEAAAHSAVTAVADAAMAQAQGLFGTDETV 1320  
 PEHIQQLQHOGIEYDVITLADD\* 1342

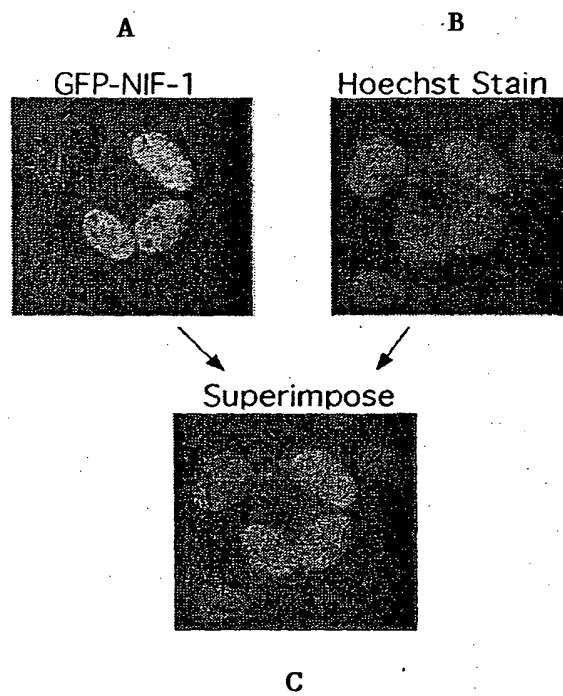
FIG. 1A

|             |     |     |                       |                         |                        |                 |
|-------------|-----|-----|-----------------------|-------------------------|------------------------|-----------------|
| Human NIF-1 | 592 | Zn3 |                       | Zn4                     |                        | LXXLL           |
| Chick NIF   |     |     | CDKCGKSFKKRYTFKMHLLTH | CEFVCEDKKALLNHQLSH      | ATQTALDLLLLNMSAQREL    |                 |
| Rat NIF     |     |     | .....                 | .DY.....V.....          | .....T.....            |                 |
|             |     |     |                       |                         |                        |                 |
| Human NIF-1 |     | Zn5 |                       | Zn6                     |                        | Leu Zipper-like |
| Chick NIF   |     |     | CKICAEAFPGPAEMESHKRAH | CHLCGQRFNRNGHLKFKHIQRLH | LNSDDETLATLHTALQSSHGVL |                 |
| Rat NIF     |     |     | LQDLHSHVYRESRNGESQESH | .QI.....M....           | ...ED...Q...GQA..      |                 |
|             |     |     | ..V.S....S.....       | ..V.....I.....          | ...EEE.....F..N..T.    |                 |

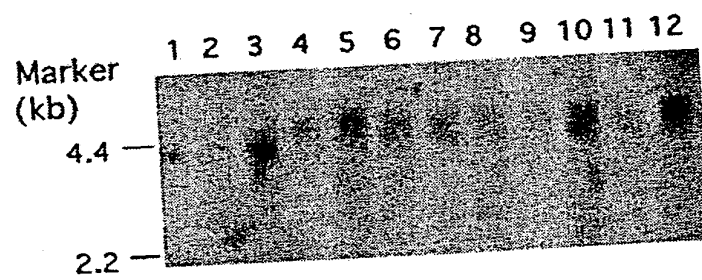
**FIG. 1B**



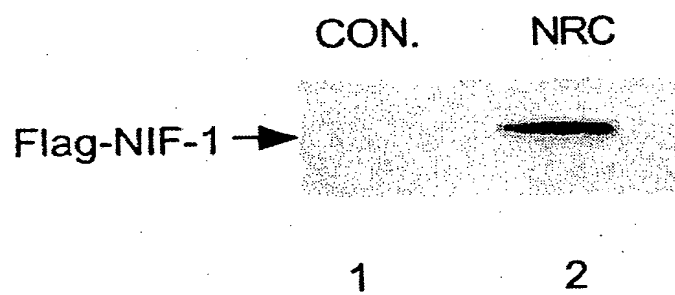
**FIG. 1C**



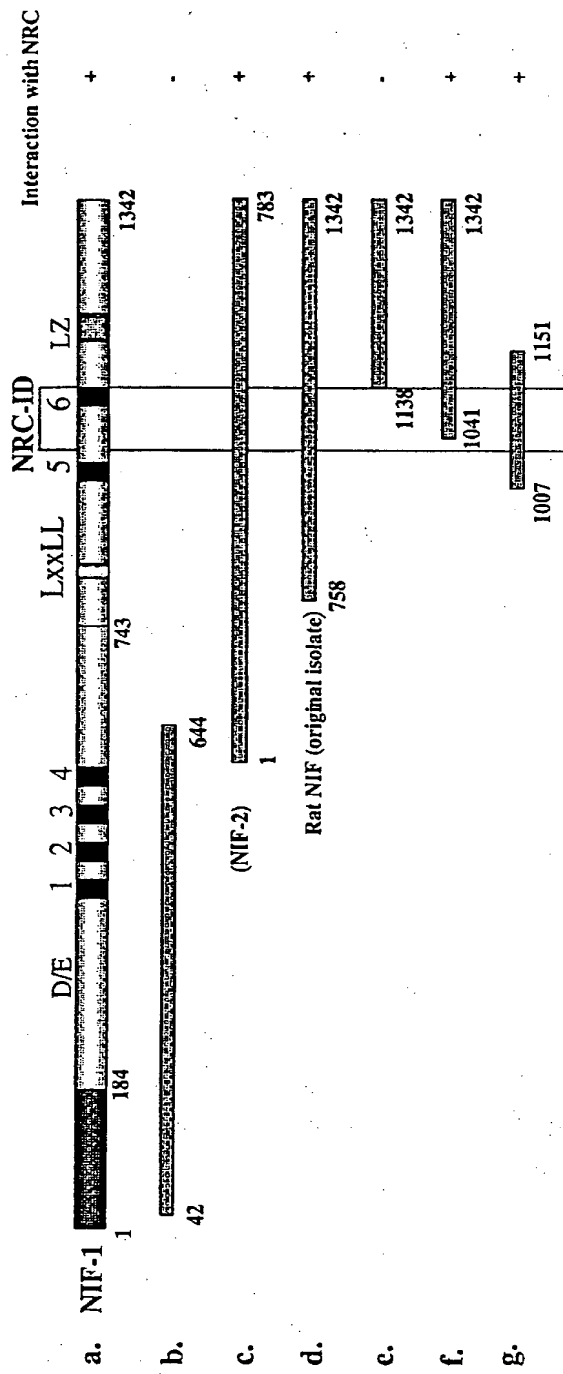
**FIG. 2**



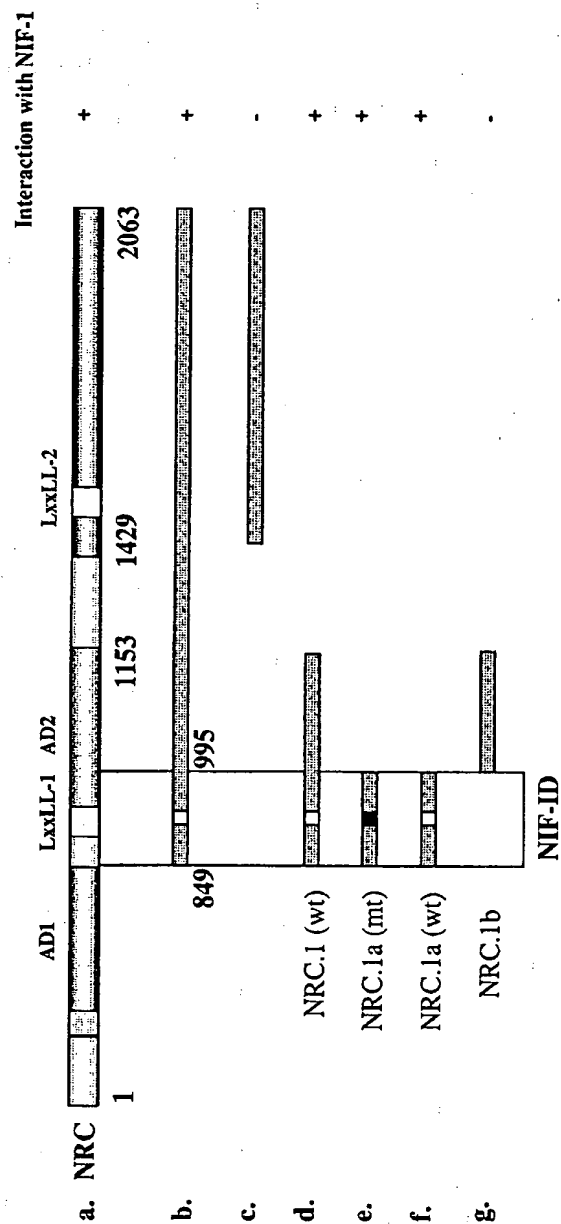
**FIG. 3**



**FIG. 4**

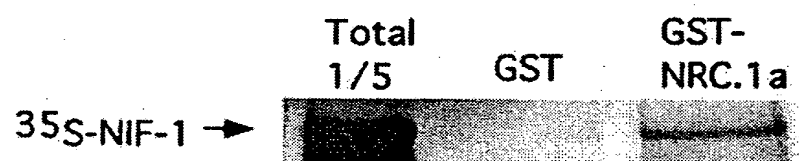


**FIG. 5**

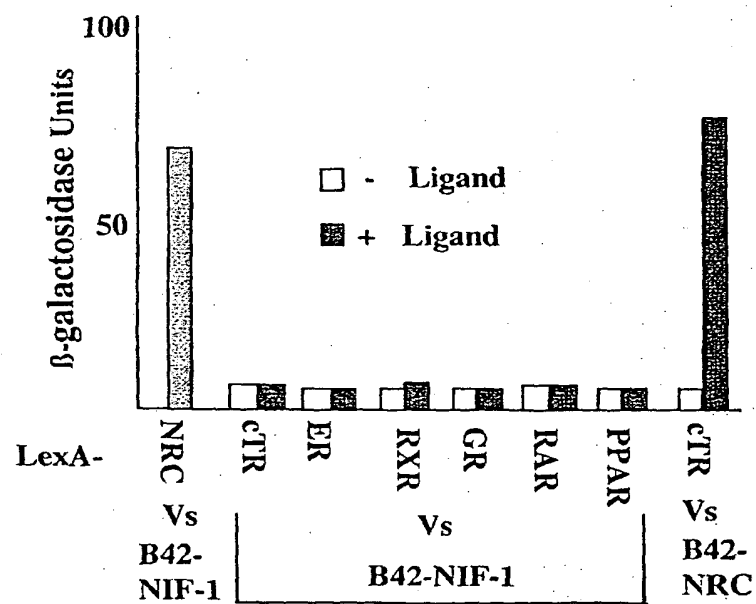


**FIG. 6A**

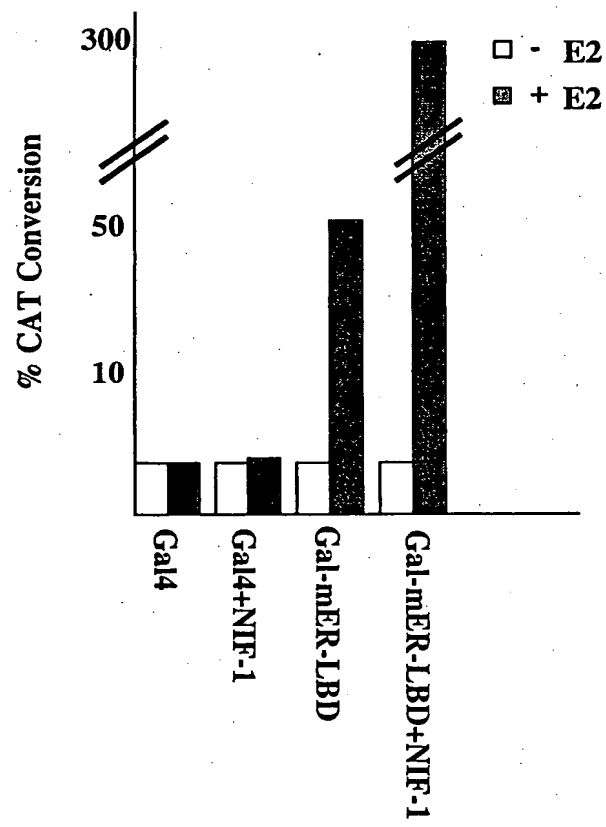




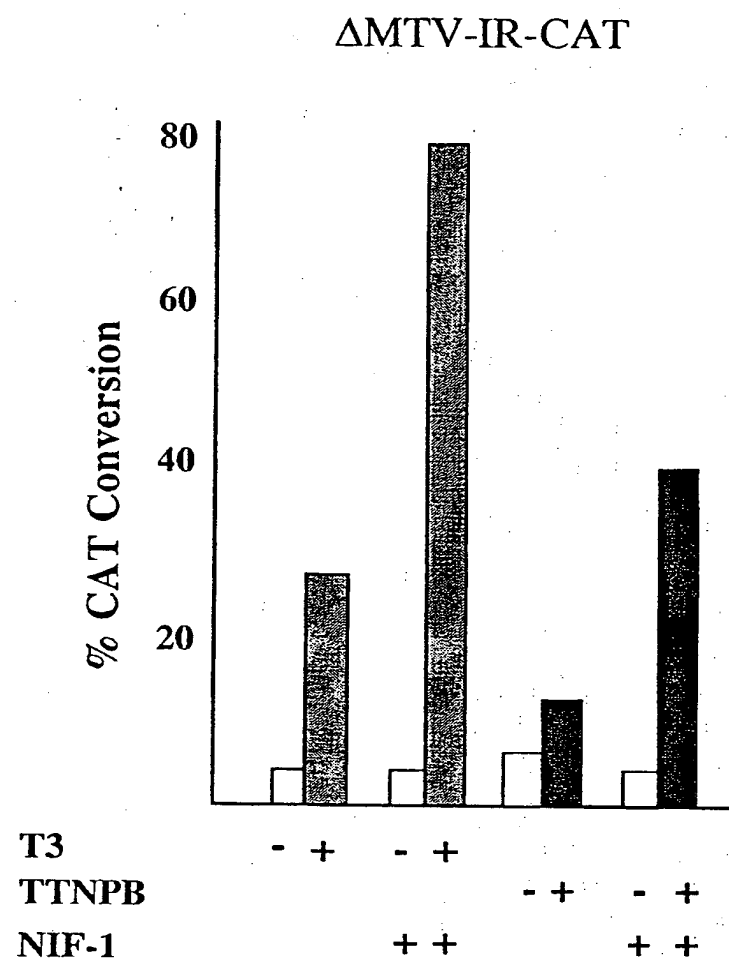
**FIG. 6B**



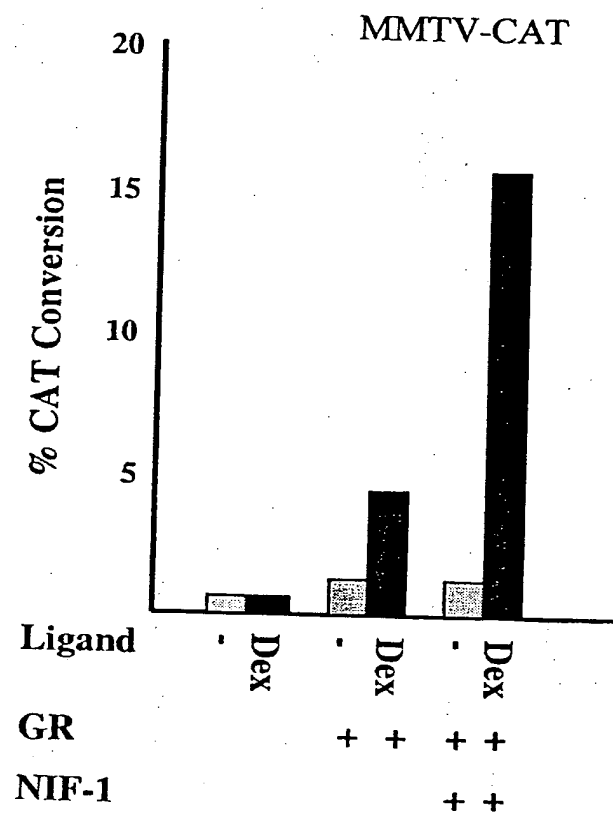
**FIG. 7**



**FIG. 8**

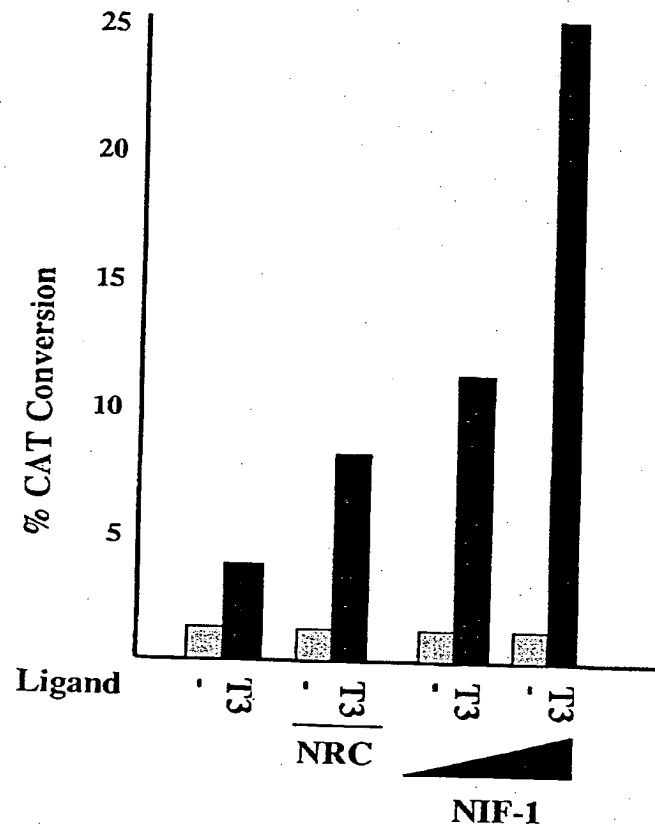


**FIG. 9A**

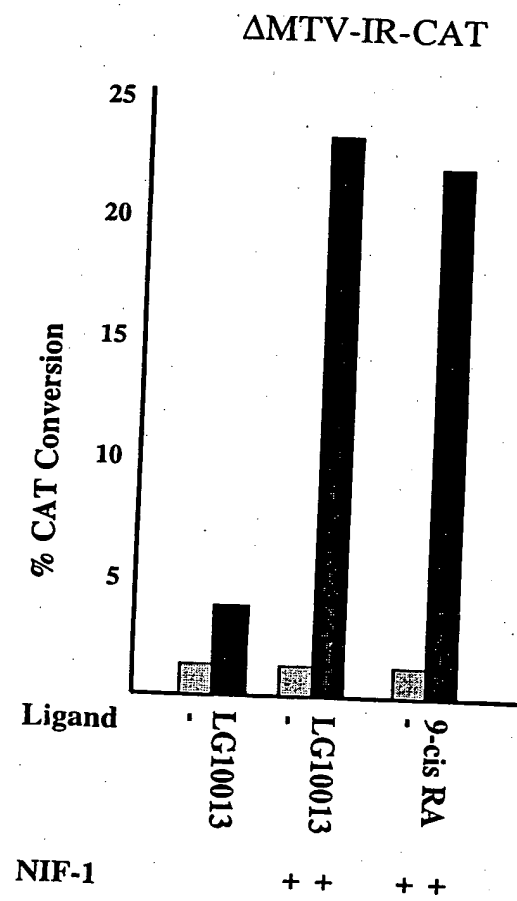


**FIG. 9B**

$\Delta$ MTV-IR-CAT



**FIG. 10A**



**FIG. 10B**

# -73 Collagenase-CAT

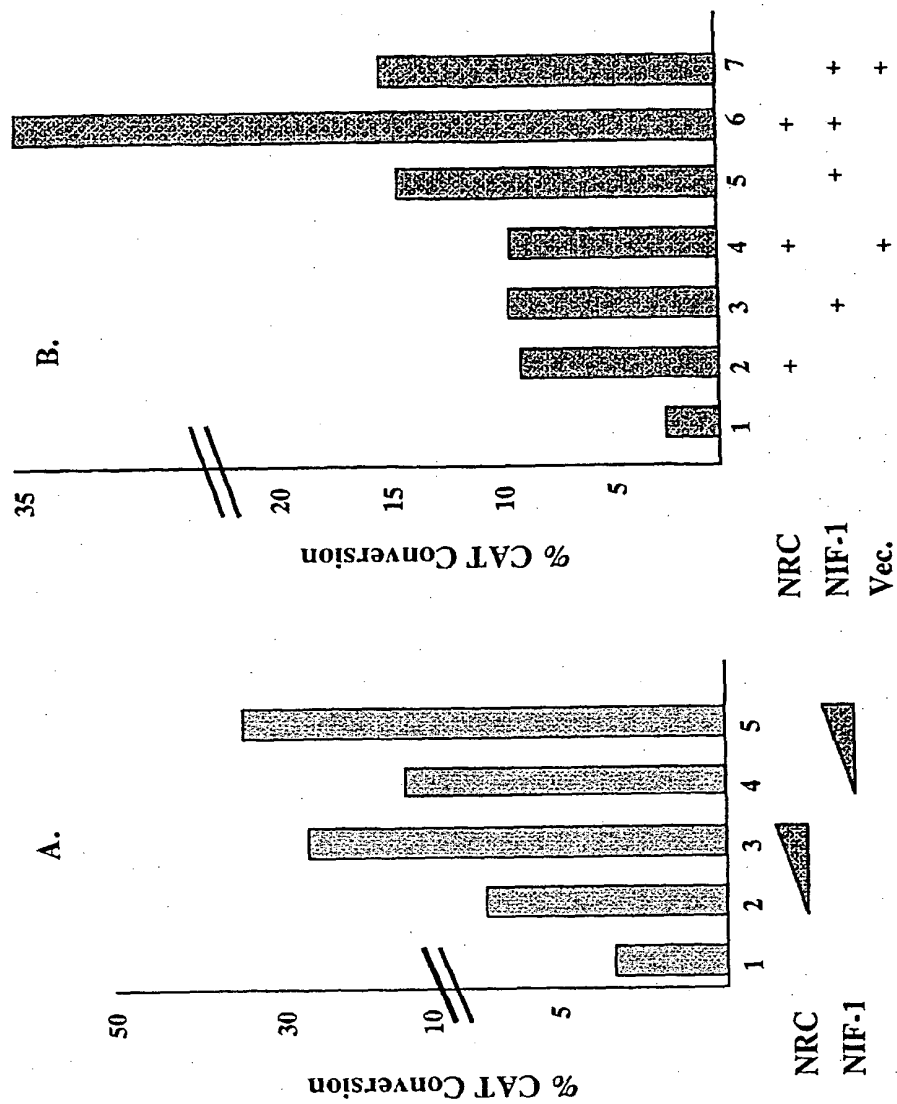


FIG. 11